(54) Title: METHOD AND APPARATUS FOR REDUCING EDGE IMAGE RETENTION IN AN ELECTROPHORETIC DISPLAY DEVICE

(57) Abstract: The invention relates to an electrophoretic display device (1) comprising charged particles (8, 9) in a fluid (10) between a pair of electrodes (5, 6). A drive means is arranged and configured to supply a drive waveform to the electrodes (5, 6), the drive waveform comprising a sequence of drive signals for effecting respective optical transitions by causing the charged particles (8, 9) to occupy a predetermined position between the electrodes (5, 6) according to image data required to be displayed, and at least one voltage pulse, preferably prior to each drive signal, for inducing a substantially uniform electric field distribution across the display device (1). This has the effect of significantly reducing edge image retention and/or ghosting.

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EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARI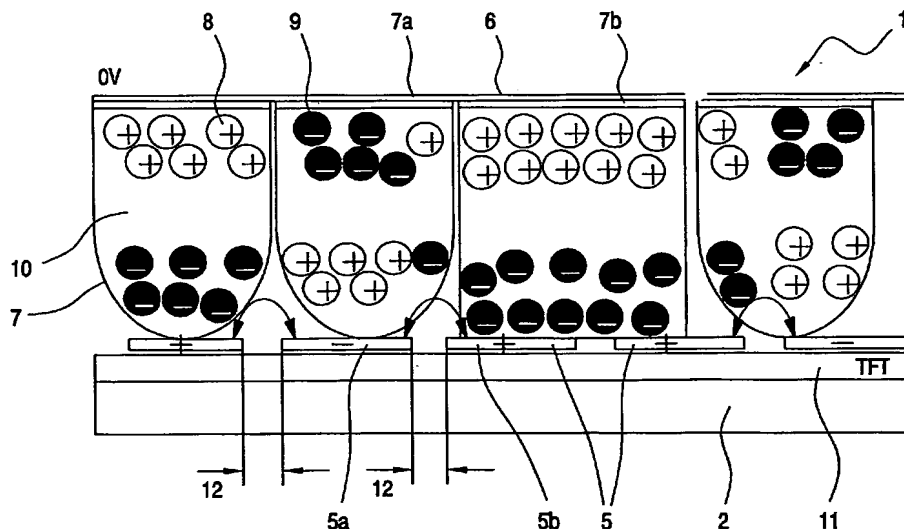PO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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